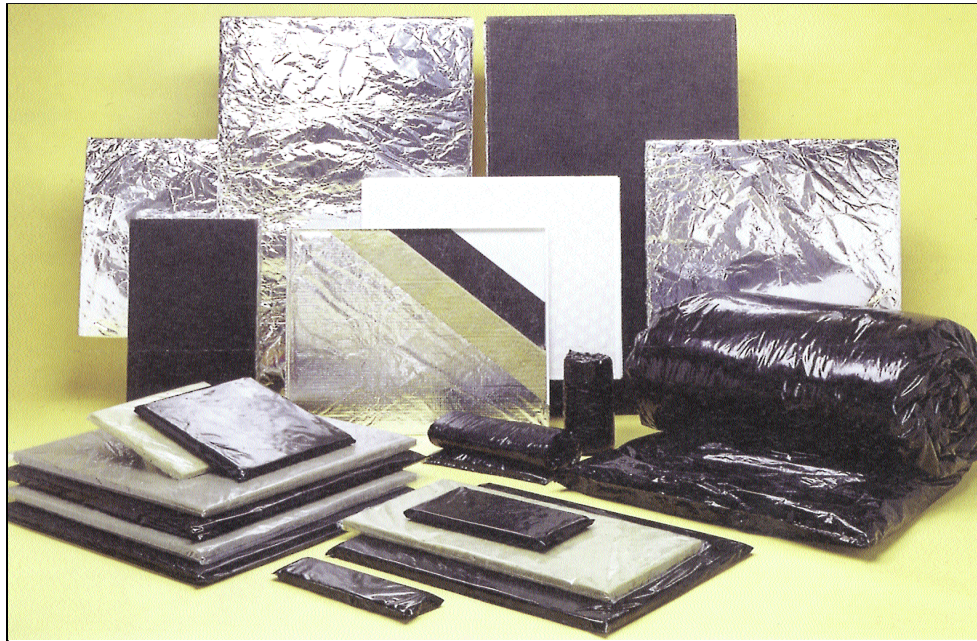


# Thermos<sup>®</sup> Acoustic Ceiling Tile Pads

## Description

**Thermos Acoustic Ceiling Tile Pads** are designed to be an integral component in perforated metal suspended ceiling grid systems. They incorporate thermal insulation, acoustic absorption and fire ratings to enable specifiers to meet Building Regulations and client specific requirements.



**Thermos Acoustic Ceiling Tile Pads** are available in a wide range of sizes and combinations of thickness and density.

<b>Colour</b>	Mineral fibre	-	Greyish Brown
	Surface finish	-	Black, White or Silver

## Product Range

<b>Type A</b>	Plain mineral fibre.
<b>Type B2</b>	Mineral fibre totally enclosed in 200 gsm black polythene with heat sealed edges.
<b>Type E</b>	Mineral fibre faced one side and all edges with 25 micron plain aluminium foil and 70 gsm black glass tissue on reverse.
<b>Type E Reinforced</b>	Mineral fibre faced one side and all edges with reinforced Class 'O' foil and 70 gsm black or white glass tissue on reverse.

## Application

**Thermos Acoustic Ceiling Tile Pads** are designed for laying in perforated metal suspended ceiling grid systems. They are used extensively in all types of industrial, commercial and retail developments and in the ticket halls of bus, rail and air terminals.

## Operating Temperature

**Thermos Acoustic Ceiling Tile Pads** are suitable for use at normal building temperatures.

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## Fire Performance

**Type A Pads** achieve a Euroclass Reaction to Fire Class A1 rating (non-combustible) when tested in accordance with BS EN 13501-1.

**Type E Pads** 25mm x 45kg/m<sup>3</sup> achieve a Euroclass Reaction to Fire Class A1 rating (non-combustible) when tested in accordance with BS EN 13501-1.

**Type E Reinforced Pads** 25mm x 45kg/m<sup>3</sup> achieve a Euroclass Reaction to Fire Class A2-s1, d0 rating when tested in accordance with BS EN 13501-1.

## Thermal Conductivity

33kg/m<sup>3</sup> mineral fibre - 0.035 W/mK @ 10°C  
 45 to 100kg/m<sup>3</sup> mineral fibre - 0.033 W/mK @ 10°C

## Acoustic Performance

Product	Thickness and Density	Sound Absorption Coefficients					
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Type A	25mm x 45kg/m <sup>3</sup>	0.05	0.25	0.55	0.75	0.90	1.00
	25mm x 60kg/m <sup>3</sup>	0.10	0.20	0.65	0.85	1.00	0.90
	25mm x 80kg/m <sup>3</sup>	0.60	0.23	0.56	0.88	1.00	1.00

## Room to Room Sound Insulation

In a typical 600mm x 600mm perforated metal suspended ceiling system, with 16% free area and a plenum above, typical room to room sound insulation values, when tested in accordance with BS2750: Part 9: 1987, are as follows:

Product	Thickness mm	Density kg/m <sup>3</sup>	Room to Room Sound Insulation
Type E	25mm	60kg/m <sup>3</sup>	34dB
Type E Reinforced	25mm	80kg/m <sup>3</sup>	34dB

## Dimensions and Density

**Thermos Acoustic Ceiling Tile Pads** are available in a range of standard sizes to fit nominal 300mm, 600mm, 1200mm and 1500mm perforated metal suspended ceiling systems. Custom made pads are available in sizes and shapes to suit any non-standard system. Further details available on request.

Product	Thickness Range in 1mm Increments	Density Range kg/m <sup>3</sup>
Types A, B2, E and E Reinforced	from 8mm to 100mm	33, 45, 60, 80, and 100

## Application and Fixing

**Thermos Acoustic Ceiling Tile Pads** should be laid into the back of the perforated metal ceiling tile and clipped into position in accordance with the ceiling tile manufacturers recommendations.

**For Further Information**  
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